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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/623,102	07/18/2003	Craig E. Goldman	18010-00003 2898		
7590 02/18/2005			EXAMINER		
Brian M. Ding	gman, Esq. nell, DeMallie & Louge	PATEL, RAMESH B			
1700 West Parl		ART UNIT	PAPER NUMBER		
Westborough,	MA 01581-3941	2121			
			DATE MAILED: 02/18/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Summary		10/623,102	GOLDMAN, CRAI	IG E.			
		Examiner	Art Unit				
		Ramesh B. Patel	2121				
	ommunication app	ears on the cover sheet with the c	orrespondence ac	idress			
Period for Reply							
A SHORTENED STATUTORY PER THE MAILING DATE OF THIS COI - Extensions of time may be available under the after SIX (6) MONTHS from the mailing date of - If the period for reply specified above is less the If NO period for reply is specified above, the Failure to reply within the set or extended perio Any reply received by the Office later than three earned patent term adjustment. See 37 CFR 1	MMUNICATION. provisions of 37 CFR 1.13 this communication. In thirty (30) days, a reply sximum statutory period w d for reply will, by statute, emonths after the mailing	66(a). In no event, however, may a reply be tin within the statutory minimum of thirty (30) day rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered time the mailing date of this o D (35 U.S.C. § 133).	ly. xommunication.			
Status							
1) Responsive to communicatio	n(s) filed on 18 Ju	ly 2003.					
2a) This action is FINAL.		action is non-final.					
•—	,						
closed in accordance with the	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4)⊠ Claim(s) <u>1-30</u> is/are pending	in the application.						
, –	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed	d.						
6)⊠ Claim(s) <u>1-30</u> is/are rejected.							
7) Claim(s) is/are objected	Claim(s) is/are objected to.						
8) Claim(s) are subject to	Claim(s) are subject to restriction and/or election requirement.						
Application Papers		·					
9)☐ The specification is objected t	o by the Examine	r.					
10)⊠ The drawing(s) filed on <u>18 July 2003</u> is/are: a) accepted or b)⊠ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
3. Copies of the certified application from the In	ne of: priority documents priority documents copies of the prior ternational Bureau	s have been received. s have been received in Applicat ity documents have been receive	ion No ed in this National	l Stage			
Oce the attached detailed only	o dollori for a fist	o, and domined dopied net redelive	· • ·				
Attachment(s)							
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing F 	Peview (PTO-049)	4) Interview Summary Paper No(s)/Mail D	(PTO-413) ate				
Notice of Draitsperson's Patent Drawing P Information Disclosure Statement(s) (PTC Paper No(s)/Mail Date		5) Notice of Informal F 6) Other:		O-152)			

Art Unit: 2121

DETAILED ACTION

- 1. Claims 1-30 are presented for examination.
- 2. The claims and only the claims form the metes and bounds of the invention. "Office personnel are to give claims their broadest reasonable interpretation in light of the supporting disclosure. In re Morris, 127 F.3d 1048, 1054-55, 44 USPQ2d 1023, 1027-28 (Fed. Cir. 1997). Limitations appearing in the specification but not recited in the claim are not read into the claim. In re Prater, 415 F.2d 1393, 1404-05, 162 USPQ 541, 550-551 (CCPA 1969)" (MPEP p 2100-8, c 2, I 45-48; p 2100-9, c 1, I 1-4). The Examiner has full latitude to interpret each claim in the broadest reasonable sense. The Examiner will reference prior art using terminology familiar to one of ordinary skill in the art. Such an approach is broad in concept and can be either explicit or implicit in meaning.

Drawings

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3. The drawings are objected to because the submitted drawings (figures 1-18) are not clear and/or not readable text and/or lines are not clear. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing

should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

Light row The specification shall conclude with one or more claims patieularly pointing out and distinctly.

Claims 1-15, 18-23 and 28-30 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claims 1, 10, 21-22 and 28-30, the word "means" is preceded by the word(s) "to update..." in an attempt to use a "means" clause to recite a claim element as a means for performing a specified function. However, since no function is specified by

Art Unit: 2121

the word(s) preceding "means," it is impossible to determine the equivalents of the element, as required by 35 U.S.C. 112, sixth paragraph. See *Ex parte Klumb*, 159 USPQ 694 (Bd. App. 1967). Also, examiner had noticed the applicant has used other "means" terms preceded by the word(s) "for..."; it appears to be there is inconsistency between these terms. Applicant is suggested to review and make appropriate correction as required.

Regarding claim 18, line 9, the word "means," is preceded by the word(s)

"responsive to the means for comprising:" in an attempt to use a "means" clause to recite a claim element as a means for performing a specified function. However, since no function is specified by the word(s) preceding "means," it is impossible to determine the equivalents of the element, as required by 35 U.S.C. 112, sixth paragraph. See Ex parte Klumb, 159 USPQ 694 (Bd. App. 1967). The examiner is not sure why means responsive for means used, it is not clear and/or not properly defined as to what it

"meant by "means, responsive to means." "Applicant is suggested to review and make appropriate correction as required.

Dependent claims, which are not particularly rejected, are rejected based on the rejected base claim.

Art Unit: 2121

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-30 are rejected under 35 U.S.C. 102(b) as being anticipated by Kumar et al. (US Patent 5,038,305).

As to claims 1, 10, 16, 18, 21, 24-26 and 28, Kumar teaches the invention including a programmable controller for controlling an output state based on position indicated from a position transducer, comprising: an interface to the position transducer that converts the transducer signals into a change in position is taught as the transducer is connected to moving part of a machine to the programmable controller's processor module (see, abstract lines 5-7 and figures 2A-2D and col. 2, lines 54-58); a transducer position counter that accumulates the change in transducer position (see, figure 2B and col. 2, lines 61-68 and col. 5, lines 29-52); a net forward position counter that accumulates the net forward position and means for comparing the value of the net forward position counter and the value of the transducer position counter (see, abstract and figures 2A-2C and col. 5, line 42 to col. 6, line 16); means for updating the position counter when the transducer signals indicate a change of position and means for

Art Unit: 2121

updating the net forward position counter when the value of the net forward means for updating the position counter and the value of the transducer position counter are equal and the transducer interface indicates a forward movement (see, abstract and figures 2A-2D and col. 3, lines 14-36).

As to claims 2 and 29-30, Kumar teaches the programmable controller further comprising means for disabling an output state when the transducer position does not match the net forward position (see, figures 2B-C and col. 6, lines 3--52).

As to claims 3, 11 and 27, Kumar teaches the programmable controller in which the transducer interface further converts the transducer signals into an index signal that occurs once per cycle in a repetitive operation cycle (see, abstract and figures 2A-2D and col. 3, lines 21-36 and col. 4, lines 39-52 and col. 8, lines 6-23).

As to claims 4 and 12; Kumar teaches the programmable controller further comprising means for setting the transducer position counter and the net forward position counter to zero when the index signal is detected and the transducer interface indicates a forward movement (see, abstract and figures 2B-2C and col. 3, lines 21-36 and col. 6, line 53 to col. 7, line 8).

As to claims 5-9, 13-15, 19-20 and 22, Kumar teaches the programmable controller further comprising: means for setting a maximum position value, and

Art Unit: 2121

comparison means for comparing the transducer position to the maximum position value; means for setting the transducer position counter and the net forward position

Page 7

counter to zero when the transducer position is equal to the maximum position value

and the transducer interface indicates a forward movement and means for setting the

transducer position counter to the maximum position value when the transducer position

is zero and the transducer interface indicates a reverse movement (see, abstract and

figures 2B-2C and col. 3, lines 21-36 and col. 6, line 53 to col. 7, line 8 and col. 8, lines

6-23).

As to claims 17 and 23, Kumar teaches the programmable controller wherein the event signal comprises an interrupt (see, figures 2B-C and col. 6, lines 38-52).

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6. The prior art made of record and not relied upon is considered pertinent to

applicant's disclosure.

Art Unit: 2121

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ramesh B. Patel whose telephone number is 571-272-3688. The examiner can normally be reached on M-Th; 7:00 AM to 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Anthony Knight can be reached on 571-272-3687. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Primary Examiner

Art Unit 2121